KEMBLOK™
ESD BOOTS

RESPIREX™

Pharmaceuticals | Electronics | Industrial Chemicals | Petrochemical | Hazardous Waste

A chemically protective Electro-Static Discharge (ESD) boot with an integral steel toe cap and vulcanized rubber sole for superior slip resistance. Suitable for applications such as pharmaceutical electro-protective areas.

EN 13832-3
Chemical Protection

Boot Shaft

- Green chemically resistant compound shaft certified to EN 13832
- Conforms to EN 943-1 (Chemical protective clothing) and certified to this standard as part of an appropriate Respirex gas tight suit
- Meets the requirements of NFPA 1991 (Chemical Vapour protection)
- For use in EPA areas conforming to EN 61340-5 (ESD 99.6 MΩ dry, 11.8 MΩ wet)
- 200 Joule Epoxy coated Steel toe cap to EN ISO 20345
- Seamless construction
- Kick off lug
- Extra shin protection and ankle guard
- Adjustable height
- Knitted nylon lining
- Comfort insole (removable and machine washable)
- CE marked on the shaft with date and year of manufacture
- REACH Compliant

Boot Sole

- Black vulcanized rubber sole for maximum grip - 30% better than a conventional safety boot sole
- Slip resistance performance twice that required by SATRA TM144 standards
- Two to three times the wear resistance of conventional soles
- Stainless steel, penetration resistant mid-sole to EN ISO 20345 S5
- Fuel and oil resistant
- Greater cut resistance than conventional soles
- Resistance to hot contact 60 seconds 300°C (572°F)
- Energy absorbing tunnel system conforms to EN ISO 20345 E
- Cold insulation to EN ISO 20345

Care

- Machine washable at up to 40°C (104°F)
- Shelf life of over 10 years

Certification

Chemical Protective Footwear	EN 13832-3:2018 K O R
Safety Footwear	EN ISO 20345 S5 HRO SRC CI FO E
Personal Protective Equipment	PPE Regulation (EU) 2016/425

Sizes

US	4	5	6	7	8	9	10	11	12	13	14	15	16
EU	35	36	37	39	41	42	43	44	45	46	47	49	50
UK	3	4	5	6	7	8	9	10	11	12	13	14	15

Vulcanized Rubber Sole

Specifications, configurations and colours are subject to change without notice.

: www.respirexinternational.com
: +44 (0)1737 778600
: info@respirex.co.uk

Inquiries please contact:
Respirex North America
Ph: (281) 350-5001
Email: info@respirexna.com

Respirex International Limited
Unit F, Kingsfield Business Centre,
Philanthropic Road, Redhill, Surrey,
RH1 4DP, United Kingdom

KEMBLOK™ ESD BOOTS - CHEMICAL PERMEATION

CHEMICAL	CAS NO.	LETTER	METHOD	BREAKTHROUGH
Acetic acid (Glacial)	64-19-7	N	EN 16523	> 12 Hours
Acetone	67-64-1	B	EN374-3	> 2 Hours
Acetone Cyanohydrin	75-86-5		EN374-3	> 8 Hours
Acetonitrile	75-05-08	C	EN374-3	> 6 Hours
Acrylic Acid	79-10-7		EN374-3	> 8 Hours
Acrylonitrile	107-13-1		EN374-3	> 2 Hours
Ammonia 33%	1336-21-6	O	EN 16523	> 32 Hours
Ammonia Gas	7664-41-7		EN374-3	> 8 Hours
Ammonium Hydroxide Solution 5% free NH_3	1336-21-6		EN 16523	> 32 Hours
Ammonium Pentadecafluoro-octanoate (30% in water)	3825-26-1		EN374-3	> 8 Hours
Aniline	62-53-3		EN374-3	> 8 Hours
Anti-knock(Tetraethyl lead 60% Dibromoethane 30%/ Dichloroethane 10% TEL-CB)	78-00-2 / 106-03-4 / 107-06-2		EN374-3	> 8 Hours
Aqueous Phenol 85%	108-95-2		EN374-3	> 8 Hours
Arsenic Acid	7778-39-4		EN374-3	> 8 Hours
Benzene	71-43-2		EN374-3	> 4 Hours
Benzyl Chloride	100-44-7		EN374-3	> 8 Hours
Bromine	7726-95-6		EN374-3	> 7 Hours
Buta-1,3diene Gas	106-99-0		EN374-3	> 3 Hours
Butyl Acetate	123-86-4		EN374-3	> 6 Hours
Cable oil			EN374-3	> 8 Hours
Carbazole	86-74-8		EN374-3	> 8 Hours
Carbon Disulphide	75-15-0	E	EN374-3	> 1 Hour
Chlorine Gas	7782-50-5		EN374-3	> 3 Hours
Chloroacetic Acid 85%	79-11-8		EN 16523	> 32 Hours
Chromic Acid	1333-82-0		EN374-3	> 8 Hours
Cyclohexylamine	108-91-8		EN374-3	> 8 Hours
Dichloromethane	75-09-02	D	EN374-3	> 1 Hour
Diethylamine	109-89-7	G	EN374-3	> 2 Hours
Diethylene Glycol dimethylether	111-46-6		EN374-3	> 8 Hours
Dimethyl Formamide	68-12-2		EN374-3	> 8 Hours
Dimethylformamide	68-12-2		EN374-3	> 3 Hours
Epichlorohydrin	106-89-8		EN374-3	> 7 Hours
Ethanol (Ethyl Alcohol)	64-17-5		EN374-3	> 8 Hours
Ethyl Acetate	141-78-6	I	EN374-3	> 4 Hours
Ethylene Glycol	107-21-1		EN374-3	> 8 Hours
Ethylene Dichloride	107-06-2		EN374-3	> 8 Hours
Ethylene Oxide	75-21-8		EN374-3	> 2 Hours
Ethylenediamine tetra-acetic acid tetrasodium salt (EDTA) 5%	64-02-8		EN374-3	> 8 Hours
Formaldehyde 37%	79-11-8	T	EN374-3	> 8 Hours
Formic Acid 65%	64-18-6		EN374-3	> 8 Hours
Heptane	142-82-5	J	EN374-3	> 8 Hours
Hexane	110-54-3		EN374-3	> 7 Hours
Hydrazine	302-01-2		EN374-3	> 8 Hours
Hydrazine 5%	7803-57-8		EN374-3	> 8 Hours
Hydrochloric Acid 37%	7647-01-0		EN 16523	> 32 Hours
Hydrofluoric Acid 48%	7664-39-3	S	EN374-3	> 66 Hours
Hydrofluoric Acid 73%	7664-39-3		EN374-3	> 8 Hours
Hydrogen Chloride Gas	7647-01-0		EN374-3	> 8 Hours
Hydrogen Fluoride gas anhydrous	7664-39-3		EN374-3	> 1 Hour
Hydrogen Peroxide (10 volume (3%) solution)	7722-84-1		EN374-3	> 8 Hours

CHEMICAL	CAS NO.	LETTER	METHOD	BREAKTHROUGH
Hydrogen Peroxide 50%	7722-84-1	P	EN374-3	> 8 Hours
Iso-butane	75-28-5		EN374-3	> 8 Hours
Iso-butane followed by Hyrdrofluoric acid 71-75%	75-28-5 + 7664-39-3		EN374-3	> 8 Hours
Iso-propanol (IPA)	67-63-0		EN 16523	> 32 Hours
m-Cresol	108-39-4		EN374-3	> 8 Hours
Methanol	67-56-1	A	EN374-3	> 8 Hours
MethyL Ethyl Ketone (M.E.K) 2-Butanone	78-93-3		EN374-3	> 2 Hours
Methyl Iodide 99%	74-88-4		EN374-3	> 1.5 Hours
Methyl Methacrylate	80-62-6		EN 369	> 3 Hours
methyl-1,2-pyrolidone	872-50-4		EN369	> 8 Hours
Methylene Chloride Gas	74-87-3		EN374-3	> 1 Hour
Monochloroacetic acid	79-11-8		EN374-3	> 8 Hours
Naphalene	91-20-3		EN374-3	> 8 Hours
N,N-Dimethylaniline	121-69-7		EN374-3	> 8 Hours
N,N-dimetyl acetamide	127-19-5		EN374-3	> 8 Hours
Nitric Acid 50%	7697-37-2	M	EN 16523	> 32 Hours
Nitric Acid 70% conc	7697-37-2		EN 16523	> 32 Hours
Nitric Acid Etchant 80/20	7697-37-2		EN374-3	> 8 Hours
Nitro Benzene	98-95-3		EN374-3	> 3 Hours
Oleum 40% SO_3	8014-95-7		EN374-3	> 8 Hours
Oxalic Acid saturated solution	6153-56-6		EN374-3	> 8 Hours
Phenol 50% in Methanol	108-95-2/ 67-56-1		EN374-3	> 8 Hours
Phosphoric acid 25%	7664-38-2		EN 16523	> 32 Hours
Phosphoric acid 75%	7664-38-2		EN 16523	> 32 Hours
Propylene 1,2 oxide	75-56-9		EN374-3	> 1 Hours
Red Fuming Nitric acid	7697-37-2		EN374-3	> 4 Hours
Sodium Cyanide 30wt%	143-33-9		EN374-3	> 8 Hours
Sodium Hydroxide 40%	1310-73-2	K	EN374-3	> 8 Hours
Sodium Hypochlorite 16%	7681-52-9	R	EN374-3	> 8 Hours
Styrene	100-42-5		EN374-3	> 8 Hours
Sulphuric Acid 96%	7664-93-9	L	EN374-3	> 8 Hours
Tetrachlororethylene	127-18-4		EN374-3	> 3 Hours
Tetraethyl Lead (Octel Anti Knock)	78-00-2		EN374-3	> 8 Hours
Tetrahydrofuran	109-99-9	H	EN374-3	> 3 Hours
Toluene	108-88-3	F	EN374-3	> 4 Hours
Toluene 2,4 Diisocyanate	584-84-9		EN374-3	> 8 Hours
Trichloroethane	71-55-6		EN374-3	> 6 Hours
Trichloroethylene 1,1,2	79-01-6		EN374-3	> 3 Hours
Triethanol-amine	102-71-6		EN374-3	> 8 Hours
Triethylene Glycol	112-27-6		EN374-3	> 8 Hours
Trigonox K-80 Cumyl hydroperoxide 80% / 20% Cumene	80-15-9/ 98-82-8		EN 369	> 8 Hours
Xylene	1330-20-7		EN374-3	> 4 Hours

Chemicals in **bold** are the 15 standard test chemicals defined in EN943-2:2002

WARFARE AGENT	CAS NO.	METHOD	BREAKTHROUGH TIME
Cyanogen Chloride	506-77-4	NFPA	No permeation detected
Lewisite	541-25-3	NFPA	No permeation detected
Mustard Gas	505-60-2	NFPA	No permeation detected
Saren Gas	107-44-8	NFPA	No permeation detected
VX	50782-69-9	Finabel 0.7.C.	> 48 Hours
GD (Soman)	96-64-0	Finabel 0.7.C.	> 24 Hours

: www.respirexinternational.com
: +44 (0)1737 778600
: info@respirex.co.uk

Inquiries please contact:
Respirex North America
Ph: (281) 350-5001
Email: info@respirexna.com

Respirex International Limited
Unit F, Kingsfield Business Centre,
Philanthropic Road, Redhill, Surrey,
RH1 4DP, United Kingdom